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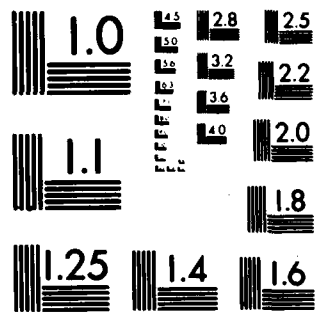
ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/G 4/2
14818A LANCE, MISSILE NUMBER 4520, ROUND NUMBER 355-APT, 29 SEP--ETC(U)
SEP 80

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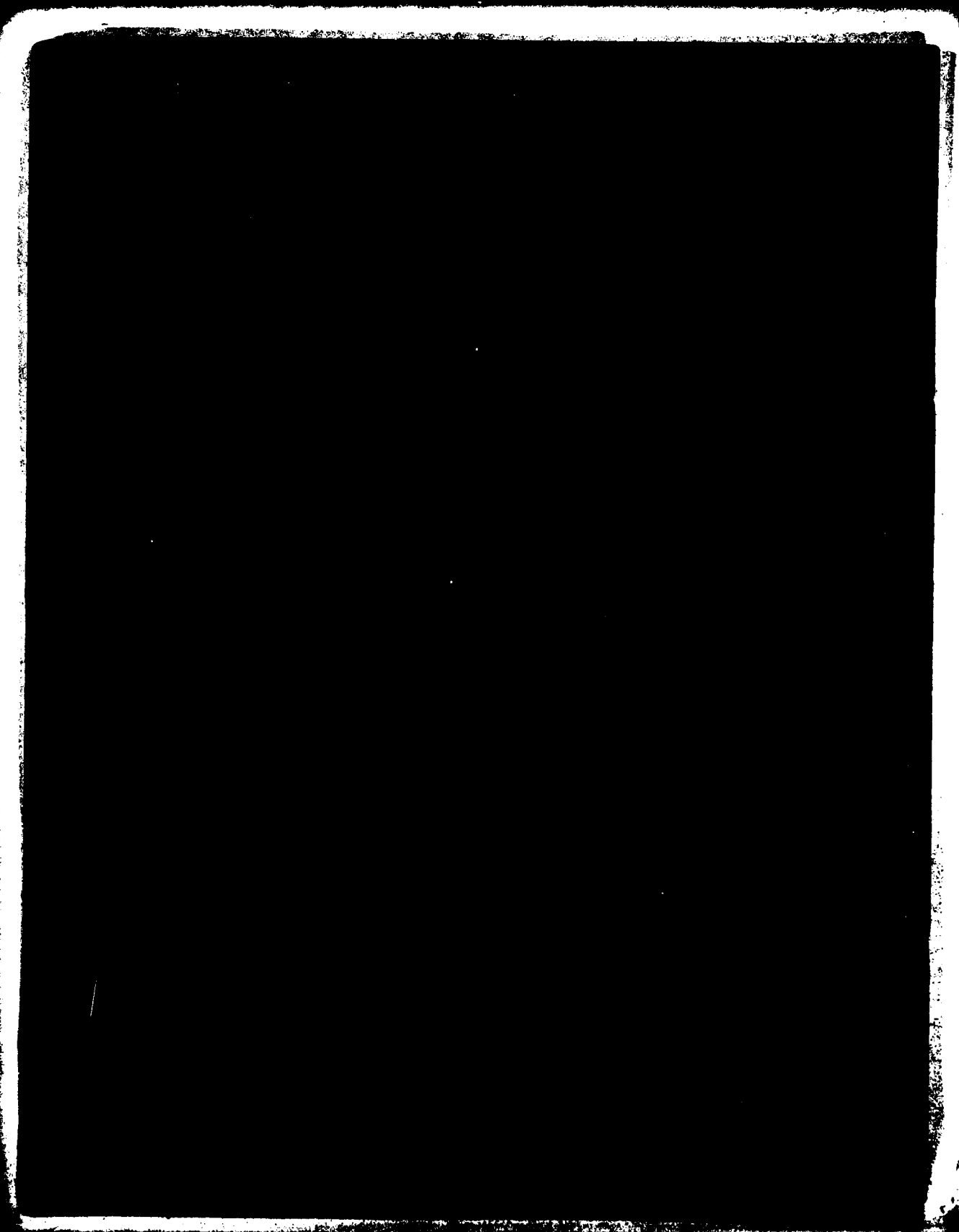
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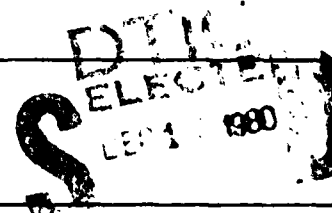
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18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of the 14818A LANCE, Missile Number 4520, Round Number 355-APT, ^{are} presented in tabular form.		

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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

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INTRODUCTION

14818A LANCE, Missile Number 4520, Round Number 355-APT, was launched from LC-39, White Sands Missile Range (WSMR), New Mexico, at 0431 MDT on 29 September 1980. The scheduled launch time was 0430 MDT.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature ($^{\circ}\text{C}$), relative humidity, dew point ($^{\circ}\text{C}$), density (gm/m^3), wind direction and speed, and cloud cover were made at the LC-39 met site at T-0 minutes.

(2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.

b. Upper Air

(1). Low level wind data were obtained from RAPTS T-9 pibal observation at:

SITE AND ALTITUDE

LC-39 2730 Meters

(b) Air structure data (rawinsonde) were collected at the following met sites. Data were collected from surface to as high as possible in 500-foot increments.

SITE AND TIME

WSD 0420 MDT
SMR 0420 MDT

Accession No.	HTIS 68121
DTIC No.	UNCLASSIFIED
Classification	
By	
Distribution/Availability Codes	
Avail and/or Special	
Dist	

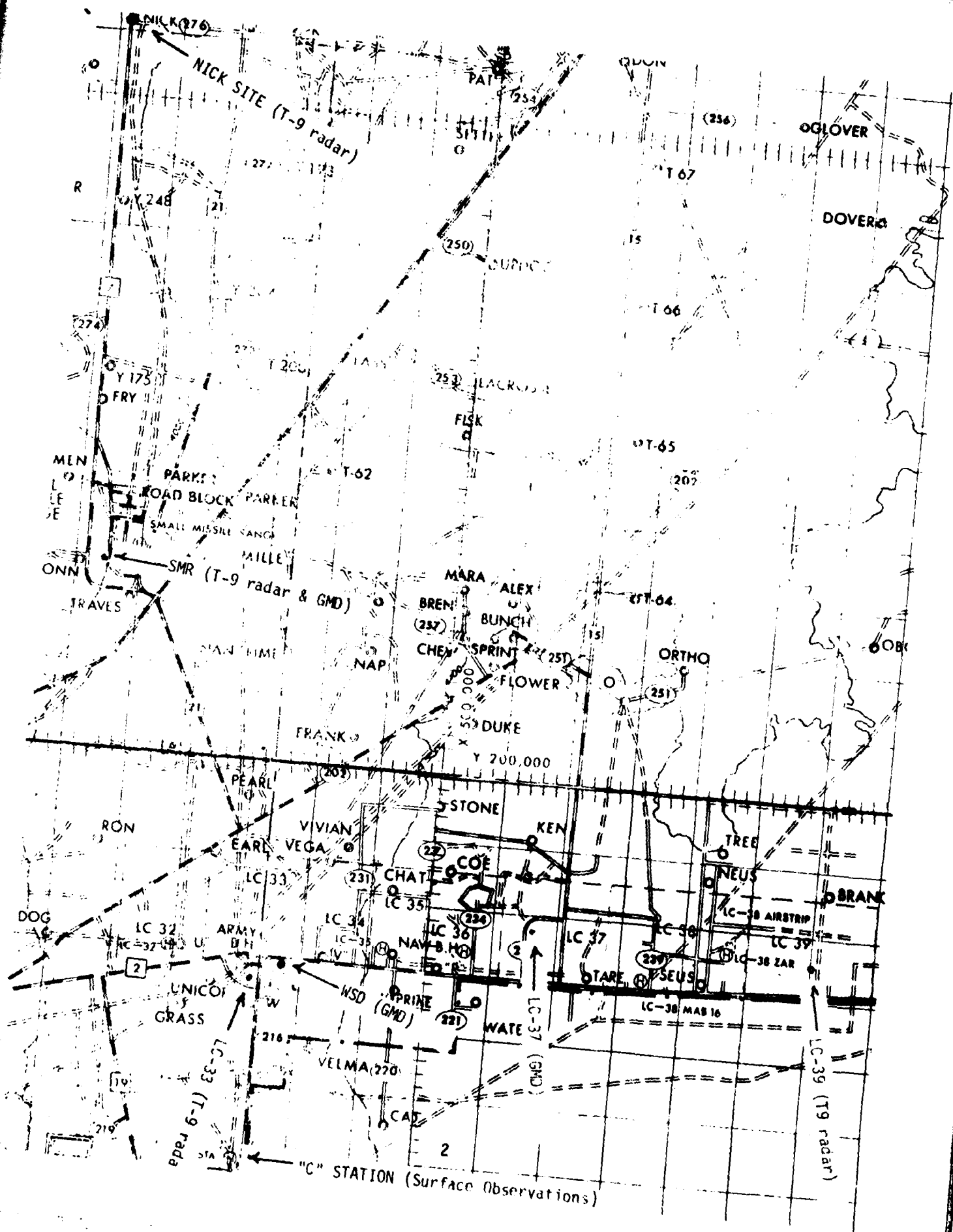


TABLE 1. Surface Observations taken at 0430 MDT,
29 September 1980, at LC-39, 14818A LANCE,
Missile Number 4520, Round Number 355-APT.

ELEVATION	4063.75	FT/MSL
PRESSURE	879.7	MBS
TEMPERATURE	15.0	°C
RELATIVE HUMIDITY	98	%
DEW POINT	14.6	°C
DENSITY	1055.4	GM/M ³
WIND SPEED	02	KTS
WIND DIRECTION	250	DEGREES
CLOUD COVER	8	Cs

PILOT BALLOON MEASURED WIND DATA

TABLE 2

RELEASED FROM LC-39 DATE 29 September 1980 TIME 0430 MDT

COORDINATES (WSTM) X= 530,938.82 Y= 186,564.96 H= 4063.75

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH.

HEIGHTS ARE METERS AGL X OR FEET AGL.

HEIGHT AGL	DIRECTION DEGREES	SPEED KNOTS
sfc	250	02
30	253	03
60	256	04
90	229	04
120	201	03
150	209	06
180	217	09
210	219	10
240	221	10
270	221	10
300	221	10
330	226	10
360	231	10
390	237	10
420	243	09
450	252	09
480	261	08
510	281	08
540	301	08
570	311	08
600	320	09
630	322	10
660	323	11
690	324	11
720	324	11
750	325	11
780	324	11
810	322	11
840	325	11
870	327	11

HEIGHT AGL	DIRECTION DEGREES	SPEED KNOTS
900	330	11
930	333	10
960	336	10
990	338	09
1020	340	09
1050	341	09
1080	339	10
1110	336	11
1140	336	12
1170	335	12
1200	335	12
1230	335	12
1260	340	14
1290	344	14
1320	346	14
1350	348	13
1380	345	13
1410	341	12
1440	338	12
1470	335	12
1500	339	11
1530	342	10
1560	342	10
1590	341	09
1620	345	09
1650	348	08
1680	348	08
1710	347	08
1740	347	09
1770	346	10

HEIGHT AGL	DIRECTION DEGREES	SPEED KNOTS
1800	347	10
1830	348	11
1860	347	10
1890	345	10
1920	344	10
1950	343	09
1980	345	09
2010	346	09
2040	346	09
2070	345	09
2100	342	09
2130	339	09
2160	337	10
2190	334	10
2220	334	10
2250	333	10
2280	335	10
2310	336	10
2340	337	11
2370	338	11
2400	337	11
2430	335	11
2460	334	11
2490	333	11
2520	335	11
2550	336	11
2580	333	11
2610	330	11
2640	334	11
2670	337	10
2700	334	10
2730	350	09

STATION ALTITUDE 3989.00 FEET MSL
29 SEP. 69
ASLT. STATION NO. 518

SIGNIFICANT LEVEL DATA
2730020518
WHITE SANDS

0420 HRS MDT

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LONG DEG

TABLE 3.

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MEL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT
879.7	3963.0	15.0	48.0
872.6	4216.0	16.9	43.0
854.0	4222.6	17.9	74.0
850.0	4254.8	17.6	72.0
761.2	3035.1	13.0	72.0
743.0	8704.5	12.9	35.0
734.2	9033.4	12.4	46.0
700.0	10341.6	9.5	43.0
621.4	13548.5	2.4	37.0
604.6	14267.3	2.2	43.0
571.8	15747.4	-1.5	24.0
555.6	16489.2	-2.3	11.0
532.2	17617.8	-4.0	11.0
524.2	18010.0	-4.8	11.0
509.0	19224.6	-7.3	46.0
486.2	19538.7	-8.6	10.0
478.8	20329.0	-9.4	10.0
463.2	21172.2	-8.6	10.0
461.3	21276.9	-8.9	16.0
440.6	21917.7	-10.7	14.0
442.4	22337.4	-10.5	10.0
407.6	24390.9	-15.7	10.0
400.0	24957.5	-14.2	10.0
374.2	26502.6	-18.2	10.0
361.0	27382.7	-18.7	10.0
335.0	29172.3	-24.4	10.0
328.8	29649.2	-24.7	10.0
316.8	30527.3	-26.7	10.0
300.0	31813.4	-30.1	10.0
292.4	32014.2	-30.7	10.0
269.6	34791.9	-36.0	10.0
250.0	36004.9	-39.8	10.0

STATION ALTITUDE 3939.00 FEET MSL
29 SEP. 60
ACQUISITION NO. 518

0420 HRS MDT

SIGNAL CAUSE LEVEL DATA
2730020518
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 3 (continued)

PRESSURE GEOMET. IC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CENTIGRADE	
200.0	40.93.0	-52.5	
163.0	45150.1	-62.7	
150.2	45757.1	-63.0	
150.0	46031.7	-65.2	
140.6	46129.9	-65.7	
132.2	49355.5	-68.7	
123.0	50640.0	-70.0	
104.0	53097.6	-78.5	
102.9	54193.1	-75.7	
100.0	54747.4	-73.7	
74.4	60508.2	-69.6	
70.0	61706.2	-70.3	
60.6	64530.1	-69.8	
50.0	68392.1	-62.3	
44.2	70932.3	-58.3	
30.0	79025.3	-56.7	
24.6	83212.4	-54.1	

STATION ALTITUDE 3989.00 FEET MSL
20 SEP. 60
ASCENSION NO. 514

UPPER AIR DATA
2730020510
WHITE SANDS

GEOSTATIC COORDINATES
32.40043 LAT DEG
106.37033 LONG DEG

0420 HRS MDT

TABLE 4.

GEOSTATIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUMID. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KILOTS	DIRECTION DEGREES (IN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
3989.00	879.7	15.0	98.0	1055.9	663.7	0.0	0.0	1.000312
4000.00	879.0	15.1	97.6	1055.1	663.8	324.1	0.0	1.000312
4500.00	863.8	17.4	84.1	1028.3	666.5	324.1	1.5	1.000304
5000.00	848.6	17.5	72.0	1010.5	666.4	324.1	3.0	1.000290
5500.00	833.6	16.8	72.0	995.3	665.4	324.1	4.5	1.000284
6000.00	818.8	16.0	72.0	980.3	664.5	331.6	5.9	1.000278
6500.00	804.2	15.3	72.0	965.6	663.6	340.1	7.5	1.000272
7000.00	790.0	14.5	72.0	951.1	662.7	350.2	7.8	1.000267
7500.00	775.9	13.8	72.0	936.8	661.8	356.5	8.5	1.000261
8000.00	762.2	13.1	72.0	922.7	660.8	358.2	9.6	1.000256
8500.00	748.5	12.9	68.2	907.3	660.4	359.0	9.6	1.000244
9000.00	735.1	12.5	46.9	893.5	659.5	1	9.3	1.000231
9500.00	721.8	11.4	44.9	881.0	658.2	2.9	8.6	1.000225
10000.00	708.6	10.3	43.8	868.7	656.8	2	8.3	1.000219
10500.00	695.9	9.1	42.7	856.4	655.4	354.6	8.2	1.000214
11000.00	683.1	8.0	41.8	844.2	654.1	351.6	6.4	1.000210
11500.00	670.5	6.9	40.8	832.1	652.7	350.4	4.7	1.000205
12000.00	658.2	5.8	39.9	820.1	651.4	350.7	3.4	1.000201
12500.00	646.1	4.7	39.0	808.4	650.0	10.3	4.6	1.000196
13000.00	634.2	3.6	38.0	796.8	648.7	24.5	6.8	1.000192
13500.00	622.5	2.5	37.1	785.4	647.3	21.1	8.1	1.000189
14000.00	610.9	2.3	40.8	771.3	647.1	11.3	8.0	1.000186
14500.00	599.5	1.6	40.0	758.8	646.3	351.6	7.3	1.000183
15000.00	588.2	.4	33.6	748.2	644.7	343.0	5.3	1.000177
15500.00	577.2	-.9	27.2	737.8	643.2	320.6	3.3	1.000172
16000.00	566.3	-1.8	19.6	726.4	642.0	294.5	3.1	1.000167
16500.00	555.6	-2.5	11.0	714.3	641.3	271.9	4.7	1.000162
17000.00	545.0	-3.1	11.0	702.7	640.4	264.7	7.4	1.000159
17500.00	534.6	-3.8	11.0	691.3	639.5	247.3	9.3	1.000157
18000.00	524.4	-4.8	11.0	680.5	638.3	233.9	11.8	1.000154
18500.00	514.3	-6.2	25.1	670.7	636.7	231.1	14.7	1.000155
19000.00	504.4	-7.7	39.5	661.1	635.1	232.3	16.9	1.000155

STATION ALTITUDE 3989.00 FEET MSL
29 SEP 60 0420 HRS MDT
ASBESTOS. NO. 518

UPPER AIR DATA
2730020518
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LONG DEG

TABLE 4 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND KIOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KIOTS	INDEX OF REFRACTION
19500.0	494.6	-8.4	32.1	670.4	634.1	237.3	18.5	1.000150
20000.0	485.6	-8.7	10.0	638.8	633.6	238.9	20.8	1.000144
20500.0	475.6	-9.2	10.0	627.6	633.0	239.3	23.4	1.000141
21000.0	460.3	-8.8	10.0	614.3	633.5	239.5	26.8	1.000139
21500.0	457.3	-9.5	15.3	604.0	632.7	241.6	29.4	1.000137
22000.0	448.3	-10.7	13.2	594.8	631.3	246.6	31.3	1.000134
22500.0	439.5	-10.9	10.0	583.8	630.9	249.0	33.9	1.000131
23000.0	430.9	-12.2	10.0	575.0	629.4	250.2	36.6	1.000129
23500.0	422.3	-13.4	10.0	566.4	627.9	240.6	39.8	1.000127
24000.0	414.0	-14.7	10.0	558.0	626.3	243.5	43.0	1.000125
24500.0	405.8	-15.8	10.0	549.3	625.0	239.9	46.3	1.000123
25000.0	397.7	-16.4	10.0	539.5	624.3	237.1	48.5	1.000121
25500.0	389.7	-17.0	10.0	529.9	623.6	235.0	49.3	1.000119
26000.0	381.9	-17.6	10.0	520.5	622.8	233.9	48.7	1.000117
26500.0	374.2	-18.2	10.0	511.3	622.1	233.4	47.2	1.000115
27000.0	366.7	-19.0	10.0	502.6	621.1	233.7	46.7	1.000113
27500.0	359.3	-20.0	10.0	494.3	619.9	234.2	46.7	1.000111
28000.0	351.9	-21.3	10.0	486.7	618.3	235.5	48.0	1.000109
28500.0	344.7	-22.6	10.0	479.2	616.7	236.3	49.7	1.000107
29000.0	337.7	-23.9	10.0	471.9	615.1	236.6	51.9	1.000106
29500.0	330.7	-24.6	10.0	463.5	614.2	237.7	53.2	1.000104
30000.0	323.9	-25.5	10.0	455.6	613.1	239.4	53.6	1.000102
30500.0	317.2	-26.6	10.0	448.2	611.7	240.2	53.6	1.000100
31000.0	310.5	-27.9	6.3**	441.1	610.0	240.6	53.4	1.000098
31500.0	304.0	-29.3	2.4**	434.3	608.4	238.8	53.4	1.000097
32000.0	297.6	-30.3		426.9	607.1	236.3	53.7	1.000095
32500.0	291.3	-30.9		419.0	606.3	236.7	54.0	1.000093
33000.0	285.1	-32.4		412.4	604.5	237.4	54.3	1.000092
33500.0	279.0	-33.8		406.0	602.8	240.3	53.8	1.000090
34000.0	273.0	-35.2		399.7	601.0	242.6	53.3	1.000089
34500.0	267.1	-36.5		393.2	599.4	242.9	52.2	1.000088
35000.0	261.3	-37.6		386.4	597.9	242.7	51.9	1.000086

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 399.00 FEET MSL
20 SEP 59
ASCENSION 140. 51N
0420 HRS MDT

UPPER AIR DATA
2730020510
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

TABLE 4 (continued)

GEOMTRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
35000.0	255.6	-38.7		379.8	590.5	241.4	53.7	1.000005
36000.0	250.1	-39.8		373.3	595.1	240.7	54.7	1.000003
36500.0	244.4	-41.1		366.9	593.5	240.9	54.2	1.000082
37000.0	238.9	-42.4		360.6	591.8	239.7	53.2	1.000080
37500.0	233.5	-43.7		354.5	590.1	238.9	51.5	1.000079
38000.0	228.2	-45.0		348.5	588.5	234.8	51.1	1.000078
38500.0	223.1	-46.3		342.6	586.8	232.9	51.8	1.000076
39000.0	218.1	-47.6		336.8	585.1	232.8	52.7	1.000075
39500.0	213.1	-48.9		331.1	583.4	233.7	53.9	1.000074
40000.0	208.3	-50.2		325.5	581.7	235.7	54.6	1.000072
40500.0	203.6	-51.5		320.0	580.0	238.5	55.0	1.000071
41000.0	199.0	-52.8		314.5	578.4	241.6	55.3	1.000070
41500.0	194.3	-54.0		308.7	576.8	245.4	55.1	1.000069
42000.0	189.6	-55.2		303.0	575.2	249.1	55.1	1.000067
42500.0	185.1	-56.4		297.5	573.6	251.6	54.8	1.000066
43000.0	180.7	-57.5		292.0	572.0	254.0	54.6	1.000065
43500.0	176.5	-58.7		286.7	570.4	254.3	56.0	1.000064
44000.0	172.3	-59.9		281.5	568.8	254.4	57.5	1.000063
44500.0	168.2	-61.1		276.3	567.2	255.5	62.0	1.000062
45000.0	164.2	-62.3		271.3	565.6	256.5	67.1	1.000060
45500.0	160.2	-62.9		265.4	564.9	257.3	67.3	1.000059
46000.0	156.3	-63.5		259.7	564.1	258.2	65.3	1.000058
46500.0	152.5	-64.5		254.6	562.7	258.9	62.2	1.000057
47000.0	148.7	-65.3		249.3	561.7	259.3	56.5	1.000056
47500.0	145.1	-65.5		243.4	561.4	259.7	50.8	1.000054
48000.0	141.5	-65.6		237.6	561.2	257.7	46.9	1.000053
48500.0	138.0	-66.6		232.8	559.9	255.1	43.3	1.000052
49000.0	134.6	-67.8		228.3	558.2	252.4	39.8	1.000051
49500.0	131.2	-68.8		223.8	556.8	250.4	37.3	1.000050
50000.0	127.9	-69.3		218.7	556.2	248.0	34.6	1.000049
50500.0	124.7	-69.9		213.7	555.5	246.4	32.4	1.000048
51000.0	121.6	-70.9		209.4	554.0	243.9	31.5	1.000047

STATION ALTITUDE 3939.00 FEET MSL
29 SEP 60
ASCESSION NO. 518
0420 HRS MDT

UPPER AIR DATA
2730020518
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LONG DEG

TABLE 4 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	REL. HUM. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES (TN)	SPEED KNOTS	
51500.0	118.4	-72.2		205.3	552.3	251.6	30.7	1.000046
52000.0	115.4	-73.4		201.3	550.6	253.7	29.6	1.000045
52500.0	112.4	-74.7		197.4	548.8	254.4	27.7	1.000044
53000.0	109.5	-76.0		193.5	547.1	255.2	25.7	1.000043
53500.0	106.7	-77.2		189.6	545.3	256.0	23.2	1.000042
54000.0	104.0	-78.5		186.1	543.6	259.3	20.0	1.000041
54500.0	101.3	-74.6		177.7	548.9	263.0	16.9	1.000040
55000.0	98.7	-73.5		172.3	550.4	260.0	14.0	1.000038
55500.0	96.2	-73.2		167.6	550.9	268.5	11.4	1.000037
56000.0	93.6	-72.8		163.1	551.4	272.5	8.8	1.000036
56500.0	91.4	-72.5		158.6	551.9	273.3	7.6	1.000035
57000.0	89.1	-72.1		154.3	552.4	273.8	6.6	1.000034
57500.0	86.8	-71.7		150.2	552.9	274.4	5.7	1.000033
58000.0	84.6	-71.4		146.1	553.4	274.9	4.9	1.000033
58500.0	82.5	-71.0		142.2	553.9	275.7	4.1	1.000032
59000.0	80.4	-70.7		138.3	554.3	277.6	3.3	1.000031
59500.0	78.4	-70.3		134.6	554.8	281.6	2.4	1.000030
60000.0	76.4	-70.0		130.9	555.3	290.9	1.5	1.000029
60500.0	74.4	-69.6		127.4	555.8	338.5	.6	1.000028
61000.0	72.6	-69.9		124.4	555.4	58.5	1.1	1.000028
61500.0	70.7	-70.2		121.4	555.0	69.5	3.0	1.000027
62000.0	69.0	-70.2		118.4	554.9	69.5	5.7	1.000026
62500.0	67.2	-70.2		115.4	555.1	69.5	8.4	1.000026
63000.0	65.5	-70.1		112.4	555.2	74.0	9.5	1.000025
63500.0	63.9	-70.0		109.6	555.3	70.2	10.5	1.000024
64000.0	62.3	-69.9		106.8	555.4	81.7	11.1	1.000024
64500.0	60.7	-69.8		104.0	555.5	85.5	10.4	1.000023
65000.0	59.2	-69.8		101.0	556.8	89.8	9.8	1.000022
65500.0	57.6	-67.9		98.1	558.1	80.7	9.6	1.000022
66000.0	56.3	-67.0		95.2	559.4	74.1	10.4	1.000021
66500.0	55.0	-66.0		92.4	560.7	63.7	11.6	1.000021
67000.0	53.6	-65.0		89.7	562.0	57.3	12.4	1.000020

UPPER AIR DATA
2730020516
WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL
29 SEP 60
ASCESSION NO. 514

0420 HRS MDT

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LONG DEG

TABLE 4 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEWPOINT DEGREES (CENTIGRADE)	REL.HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TID)	SPEED KNOTS	INDEX OF REFRACTION
67500.0	52.3	-64.0		87.1	563.4	53.0	12.8	1.000019
68000.0	51.0	-63.1		84.5	564.7	48.9	13.2	1.000019
68500.0	49.7	-62.1		82.1	565.9	50.4	12.8	1.000018
69000.0	48.5	-61.3		79.8	567.0	53.9	12.2	1.000018
69500.0	47.4	-60.6		77.6	568.0	57.8	11.6	1.000017
70000.0	46.2	-59.8		75.5	569.1	59.8	10.4	1.000017
70500.0	45.1	-59.0		73.4	570.1	61.6	9.2	1.000016
71000.0	44.1	-58.3		71.4	571.1	64.0	7.9	1.000016
71500.0	43.0	-58.2		69.7	571.2	65.3	7.1	1.000016
72000.0	42.0	-58.1		68.0	571.3	66.8	6.4	1.000015
72500.0	41.0	-58.0		66.4	571.4	68.6	5.9	1.000015
73000.0	40.0	-57.9		64.8	571.6	69.4	6.4	1.000014
73500.0	39.1	-57.8		63.2	571.7	70.1	6.9	1.000014
74000.0	38.2	-57.7		61.7	571.8	68.9	7.1	1.000014
74500.0	37.3	-57.6		60.2	572.0	64.4	6.6	1.000013
75000.0	36.4	-57.5		58.8	572.1	59.2	6.1	1.000013
75500.0	35.5	-57.4		57.3	572.2	58.9	6.2	1.000013
76000.0	34.7	-57.3		56.0	572.4	62.7	6.8	1.000012
76500.0	33.9	-57.2		54.6	572.5	65.6	7.4	1.000012
77000.0	33.1	-57.1		53.3	572.6	70.7	8.5	1.000012
77500.0	32.3	-57.0		52.0	572.8	75.0	10.0	1.000012
78000.0	31.5	-56.9		50.8	572.9	78.2	11.4	1.000011
78500.0	30.8	-56.8		49.5	573.0	81.3	11.4	1.000011
79000.0	30.0	-56.7		48.3	573.2	84.6	11.1	1.000011
79500.0	29.3	-56.4		47.1	573.5	87.8	10.8	1.000010
80000.0	28.6	-56.1		46.0	574.0	90.4	9.7	1.000010
80500.0	28.0	-55.8		44.8	574.4	93.5	8.6	1.000010
81000.0	27.3	-55.5		43.7	574.6			1.000010
81500.0	26.7	-55.2		42.6	575.2			1.000009
82000.0	26.1	-54.9		41.6	575.8			1.000009
82500.0	25.4	-54.5		40.5	576.0			1.000009
83000.0	24.8	-54.2		39.5	576.4			1.000009

STATION ALTITUDE 3989.00 FEET MSL
29 SEP 69
ASCELS 101.110. 5334

MANDATORY LEVELS
2730020510
WHITE SANDS

0420 HRS MDT

5334

TABLE 5.

PRESSURE GEOPOTENTIAL MILLIBARS	FEET	TEMPERATURE AIR DEGREES CENTIGRADE	DEWPOINT DEGREES CENTIGRADE	REL. HUMID. PERCENT	WIND DATA	
					DIRECTION DEGREES (TN)	SPEED KNOTS
850.0	4951.	17.6	12.5	72.	324.1	2.8
800.0	6648.	15.1	10.1	72.	343.2	7.6
750.0	8438.	12.9	5.7	62.	358.9	9.7
700.0	10331.	9.5	-2.4	43.	356.4	8.3
650.0	12333.	5.1	-7.6	39.	10.7	4.0
600.0	14462.	1.7	-10.4	40.	352.8	7.3
550.0	16741.	-2.7	-29.0	11.	267.4	6.1
500.0	19197.	-8.3	-17.8	46.	234.6	17.6
450.0	21873.	-10.7	-32.9	14.	245.6	30.9
400.0	24816.	-16.2	-40.6	10.	237.8	48.2
350.0	28084.	-21.6	-45.0	10.	235.8	48.4
300.0	31749.	-30.1			237.3	53.6
250.0	35925.	-39.8			240.7	54.7
200.0	40783.	-52.5			240.7	55.4
175.0	43581.	-59.2			254.3	56.5
150.0	46783.	-65.2			259.1	58.6
125.0	50312.	-69.8			246.1	32.5
100.0	54577.	-73.7			265.0	15.5
80.0	58407.	-70.6			277.9	3.2
70.0	61493.	-70.3			69.5	3.9
60.0	64503.	-69.4			87.2	10.2
50.0	68135.	-62.3			49.4	13.0
40.0	72720.	-57.9			69.3	8.4
30.0	78688.	-56.7			84.5	11.1
25.0	82501.	-54.3				

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3997.30 FEET MSL
29 SEP 68
ASCENSION NO. 88 0420 HRS MDT

SIGNIFICANT LEVEL DATA
2730060000
S H R

GEODETIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG

TABLE 6.

PRESSURE GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE		REL. HUM. PERCENT
	AIR DEGREES	DEWPOINT CELSIUS	
881.2	15.1	15.0	92.0
872.4	15.6	15.4	99.0
862.4	17.8	15.4	86.0
842.2	17.0	12.5	75.0
822.6	17.0	11.5	70.0
773.4	14.0	9.4	74.0
735.2	12.6	-1.3	38.0
697.8	10.6	-9.0	23.0
634.4	3.9	-14.8	24.0
616.8	3.4	-13.8	27.0
565.4	-1.3	-28.9	10.0
531.6	-4.0	-31.0	10.0
491.6	-9.0	-19.6	41.0
483.8	-9.0	-30.6	15.0
479.9	-9.0	-29.5	17.0
476.0	-9.0	-35.0	10.0
460.6	-9.0	-35.0	10.0
423.4	-13.0	-38.1	10.0
387.8	-18.5	-42.5	10.0
353.8	-20.8	-44.3	10.0
315.0	-27.3	-49.5	10.0
219.0	-47.5		
163.4	-62.4		
155.0	-63.0		
139.2	-68.0		
138.1	-66.5		
131.8	-67.6		
107.0	-77.8		
105.6	-74.4		
91.4	-71.4		
74.2	-70.5		
71.6	-72.0		

GEODETIC COORDINATES
 32.44034 LAT UFG
 106.42307 LON UEG

SIGNIFICANT LEVEL DATA
 27300.0000
 S M P

STATION ALTITUDE 3997.30 FEET MSL
 20 APR 63
 ASCE/STATION NO. 0420 HRS MDT

TABLE 6 (continued)

PRECIPITATION MILLIMETERS MSL FEET	TEMPERATURE AIR DEGREE CENTIGRADE	REL. HUM. PERCENT
61.2	64409.7	-67.8
56.2	66124.8	-62.5
34.8	75086.7	-50.7
20.2	80405.2	-53.8
16.4	92012.9	-50.7
14.0	95480.4	-43.8

STATION ALTITUDE 3997.30 FEET MSL
29 SEP. 60
ASCENSION NO. 04

UPPER AIR DATA
2730060000
S M R

GEODETIC COORDINATES
32.48034 LAT DEG
106.42307 LON DEG

TABLE 7.

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³ METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES (TN)	SPEED KNOTS	
3497.3	881.2	15.1	92.0	1057.7	663.7	0.0	0.0	1.000308
4000.0	881.1	15.1	92.1	1057.6	663.7	358.4	0.0	1.000308
4500.0	865.5	17.1	90.1	1030.8	666.3	358.4	1.4	1.000309
5000.0	850.5	17.3	79.4	1012.6	666.3	358.4	2.8	1.000296
5500.0	835.5	17.0	73.3	990.4	665.7	358.4	4.1	1.000286
6000.0	820.6	16.9	70.2	979.5	665.5	351.1	4.3	1.000279
6500.0	806.0	16.0	71.3	965.1	664.5	356.7	3.8	1.000274
7000.0	791.7	15.1	72.5	951.0	663.4	347.7	4.7	1.000269
7500.0	777.7	14.3	73.6	937.1	662.4	355.3	6.0	1.000264
8000.0	763.8	13.7	65.1	923.0	661.4	358.9	8.1	1.000253
8500.0	750.1	13.2	52.3	909.1	660.5	1.0	9.6	1.000239
9000.0	736.7	12.7	39.4	895.3	659.6	2.6	10.8	1.000226
9500.0	723.4	12.0	33.4	881.7	658.6	5.0	10.9	1.000218
10000.0	710.4	11.3	28.1	868.3	657.7	0.3	10.8	1.000211
10500.0	697.5	10.6	23.0	855.1	656.7	6.3	10.2	1.000204
11000.0	684.7	9.3	23.4	843.4	655.2	10.3	9.6	1.000201
11500.0	672.2	8.0	23.6	831.8	653.7	16.2	9.1	1.000197
12000.0	659.9	6.7	21.6	820.4	652.1	23.6	8.9	1.000194
12500.0	647.8	5.4	23.8	809.2	650.6	27.4	8.6	1.000191
13000.0	635.9	4.1	24.0	798.2	649.0	25.1	7.9	1.000187
13500.0	624.1	3.6	25.7	784.6	648.5	14.8	7.3	1.000185
14000.0	612.5	3.0	25.6	771.7	647.8	358.8	6.9	1.000182
14500.0	601.0	2.0	21.9	760.2	646.5	350.9	5.5	1.000177
15000.0	589.7	1.0	18.2	748.9	645.3	358.4	4.1	1.000173
15500.0	578.7	-0.0	14.5	737.7	644.0	309.8	3.5	1.000169
16000.0	567.8	-1.1	10.8	726.7	642.7	288.5	5.3	1.000165
16500.0	557.1	-1.9	10.0	715.3	641.7	281.6	8.3	1.000162
17000.0	546.5	-2.8	10.0	703.9	640.7	271.1	9.6	1.000159
17500.0	536.1	-3.6	10.0	692.7	639.7	261.2	11.0	1.000157
18000.0	525.8	-4.7	14.3	682.1	638.4	243.5	12.2	1.000155
18500.0	515.7	-5.9	22.0	671.9	637.0	241.1	14.1	1.000154
19000.0	505.8	-7.2	29.7	661.9	635.6	237.9	16.3	1.000153

STATION ALTITUDE 3997.30 FEET MSL
20 SEP 60
ASCESSION NO. 00

UPPER AIR DATA
2750000000
S M R

GEODETTIC COORDINATES
32.44034 LAT DEG
106.42307 LONG DEG

0420 HRS MDT

TABLE 7 (continued)

GEOMTRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	ULWPOINT CENTIGRADE	REL.HUMID. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND METERS PER SECOND	WIND DATA DIRECTION (IN) DEGREES	SPEED KNOTS	INDEX OF REFRACTION
19000.0	496.9	-6.4	-20.3	37.4	652.2	634.1	230.7	17.8	1.000152
20000.0	486.0	-9.0	-25.9	23.8	641.1	633.3	230.2	19.1	1.000147
20500.0	477.0	-9.0	-33.3	11.7	626.8	633.3	240.0	21.0	1.000142
21000.0	467.7	-9.0	-35.0	10.0	616.6	633.2	245.7	23.2	1.000139
21500.0	458.6	-9.2	-35.1	10.0	605.1	633.0	240.7	25.9	1.000136
22000.0	449.6	-10.1	-35.9	10.0	595.4	631.9	250.9	28.6	1.000134
22500.0	440.8	-11.1	-36.6	10.0	585.0	630.7	250.3	31.4	1.000132
23000.0	432.1	-12.0	-37.3	10.0	576.4	629.6	249.5	34.2	1.000130
23500.0	423.7	-13.0	-38.1	10.0	567.2	628.5	248.3	36.8	1.000128
24000.0	415.2	-14.2	-39.1	10.0	558.5	626.9	240.6	39.3	1.000126
24500.0	406.9	-15.5	-40.1	10.0	550.1	625.4	243.0	41.1	1.000124
25000.0	398.0	-16.7	-41.1	10.0	541.6	623.9	240.0	43.1	1.000122
25500.0	390.9	-18.0	-42.1	10.0	533.0	622.3	238.3	45.3	1.000120
26000.0	383.0	-18.8	-42.7	10.0	524.5	621.3	237.1	46.7	1.000118
26500.0	375.2	-19.3	-43.1	10.0	514.9	620.7	236.4	46.8	1.000115
27000.0	367.6	-19.8	-43.5	10.0	505.5	620.1	236.9	46.9	1.000113
27500.0	360.2	-20.4	-43.9	10.0	496.3	619.5	238.1	47.1	1.000111
28000.0	352.9	-20.9	-44.4	10.0	487.4	618.7	239.1	48.7	1.000109
28500.0	345.6	-22.1	-45.3	10.0	479.5	617.3	240.0	50.6	1.000107
29000.0	338.5	-23.3	-46.2	10.0	471.9	615.9	233.9	50.7	1.000106
29500.0	331.5	-24.4	-47.2	10.0	464.3	614.4	233.0	50.8	1.000104
30000.0	324.7	-25.6	-48.1	10.0	456.9	613.0	233.4	50.6	1.000102
30500.0	318.0	-26.4	-49.0	10.0	449.6	611.5	233.0	50.9	1.000101
31000.0	311.3	-28.0	-50.3	9.7**	442.2	610.0	239.0	52.0	1.000099
31500.0	304.5	-29.2	-51.8	9.1**	434.7	608.5	238.8	52.2	1.000097
32000.0	297.0	-30.4	-53.3	8.5**	427.4	607.0	238.1	51.6	1.000095
32500.0	291.0	-31.6	-54.9	7.9**	420.2	605.5	239.4	51.4	1.000094
33000.0	285.1	-32.8	-56.5	7.3**	413.1	604.0	241.2	51.4	1.000092
33500.0	278.9	-34.0	-58.1	6.6**	406.2	602.5	242.9	51.3	1.000091
34000.0	272.0	-35.2	-59.8	6.0**	399.4	600.9	244.5	51.1	1.000089
34500.0	266.9	-36.4	-61.5	5.4**	392.7	599.4	243.1	49.2	1.000088
35000.0	261.1	-37.6	-63.3	4.8**	386.2	597.9	241.7	47.5	1.000086

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 5997.30 FEET MSL
20 SEP 66 0420 HRS MDT
ASCENSION IS. 64

UPPER AIR DATA
2730030000
S M R

GEODTIC COORDINATES
52.48034 LAT LEG
106.42307 LON LEG

TABLE 7 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KIOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
55500.0	255.4	-38.8	4.2**	379.7	596.3	240.5	47.7	1.000065
56000.0	249.8	-40.0	3.0**	373.4	594.8	239.5	48.0	1.000083
56500.0	244.4	-41.3	3.0**	367.2	593.3	239.5	48.7	1.000082
57000.0	239.1	-42.5	2.4**	361.1	591.7	239.2	49.2	1.000060
57500.0	233.9	-43.7	1.8**	355.1	590.1	238.5	49.7	1.000079
58000.0	228.4	-44.9	1.2**	349.2	588.6	238.5	50.4	1.000078
58500.0	223.0	-46.1	.6**	343.4	587.0	240.7	52.0	1.000077
59000.0	219.0	-47.3		337.8	585.5	242.8	53.7	1.000075
59500.0	213.4	-48.6		331.7	583.8	246.4	54.8	1.000074
60000.0	208.8	-49.8		325.8	582.2	249.8	56.1	1.000073
60500.0	203.0	-51.1		319.9	580.5	252.3	56.8	1.000071
61000.0	199.1	-52.4		314.2	578.9	254.6	57.4	1.000070
61500.0	194.5	-53.6		308.6	577.2	256.3	57.1	1.000069
62000.0	189.9	-54.9		303.1	575.5	257.8	56.4	1.000068
62500.0	185.4	-56.2		297.7	573.9	257.5	55.1	1.000066
63000.0	181.1	-57.4		292.4	572.2	255.9	53.3	1.000065
63500.0	176.8	-58.7		287.2	570.5	253.8	52.6	1.000064
64000.0	172.7	-60.0		282.2	568.8	251.5	53.1	1.000063
64500.0	168.6	-61.2		277.2	567.1	251.2	53.4	1.000062
65000.0	164.7	-62.5		272.3	565.4	253.1	53.5	1.000061
65500.0	160.7	-63.2		266.7	564.5	256.4	52.9	1.000059
66000.0	156.4	-63.7		260.0	563.8	261.7	51.7	1.000058
66500.0	152.0	-64.4		255.2	562.9	266.0	50.3	1.000057
67000.0	149.2	-65.4		250.1	561.6	268.1	48.1	1.000056
67500.0	145.5	-66.3		245.0	560.3	269.3	45.4	1.000055
68000.0	141.0	-67.3		240.1	559.0	268.0	40.8	1.000053
68500.0	136.4	-68.9		235.7	559.5	261.6	36.4	1.000052
69000.0	132.0	-67.0		228.1	559.3	259.1	31.8	1.000051
69500.0	131.6	-67.7		223.1	558.4	255.5	27.2	1.000050
70000.0	128.2	-69.0		218.8	556.6	253.6	25.4	1.000049
70500.0	125.0	-70.3		214.6	554.8	252.7	24.3	1.000048
71000.0	121.8	-71.6		210.5	553.0	251.9	23.5	1.000047

** AT LAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3997.30 FEET MSL
29 SEP 68 0420 HRS MDT
ASCL'SION NO. 08

UPPER AIR DATA
2730000000
S M K

GEODETIC COORDINATES
32.44034 LAT DEG
106.42307 LONG DEG

TABLE 7 (continued)

GEOMETRIC ALTITUDE FSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
51500.0	118.7	-72.9		206.5	551.2	251.1	22.9	1.000046
52000.0	115.7	-74.3		202.6	549.4	250.6	22.1	1.000045
52500.0	112.7	-75.6		198.7	547.6	251.7	20.5	1.000044
53000.0	109.8	-76.9		195.0	545.8	253.0	18.9	1.000043
53500.0	107.0	-78.5		189.6	540.3	253.1	17.9	1.000042
54000.0	104.3	-79.1		182.5	549.6	252.7	17.1	1.000041
54500.0	101.6	-73.6		177.4	550.3	253.5	15.8	1.000040
55000.0	99.0	-73.1		172.4	551.1	256.0	13.8	1.000038
55500.0	96.5	-72.5		167.6	551.8	260.6	11.8	1.000037
56000.0	94.0	-72.0		162.9	552.5	266.4	10.3	1.000036
56500.0	91.6	-71.5		158.3	553.3	273.9	8.9	1.000035
57000.0	89.3	-71.3		154.2	553.5	280.2	7.8	1.000034
57500.0	87.1	-71.2		150.2	553.6	286.2	6.9	1.000033
58000.0	84.9	-71.1		146.3	553.8	294.7	5.9	1.000033
58500.0	82.7	-71.0		142.5	553.9	309.0	4.7	1.000032
59000.0	80.6	-70.9		138.9	554.1	330.3	3.9	1.000031
59500.0	78.6	-70.7		135.3	554.2	5.7	2.4	1.000030
60000.0	76.6	-70.6		131.8	554.4	59.7	2.8	1.000029
60500.0	74.7	-70.5		128.4	554.5	75.3	4.0	1.000028
61000.0	72.8	-71.3		125.6	553.5	80.0	5.2	1.000028
61500.0	71.0	-71.8		122.8	552.9	80.7	6.3	1.000027
62000.0	69.2	-71.1		119.3	553.8	75.1	7.2	1.000027
62500.0	67.4	-70.4		115.9	554.7	78.8	8.2	1.000026
63000.0	65.7	-69.7		112.6	555.7	72.5	9.3	1.000025
63500.0	64.1	-69.0		109.4	556.6	75.1	10.5	1.000024
64000.0	62.5	-68.4		106.3	557.5	75.6	10.9	1.000024
64500.0	60.9	-67.5		103.2	558.6	73.4	9.8	1.000023
65000.0	59.4	-66.8		99.9	560.7	70.4	8.8	1.000022
65500.0	58.0	-64.4		96.4	562.8	61.2	9.0	1.000022
66000.0	56.5	-62.9		93.7	564.9	52.0	9.5	1.000021
66500.0	55.2	-62.4		91.2	565.6	47.6	10.4	1.000020
67000.0	53.9	-62.2		88.9	563.9	49.1	11.5	1.000020

GEODETIC COORDINATES
32.48034 LAT N EG
106.42307 LON E EG

UPPER AIR DATA
2730000000
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STATION ALTITUDE 3997.30 FEET MSL
0420 HRS MDT
ASCESSION NO. 33

TABLE 7 (continued)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM ³	SPEED OF SOUND KNOTS	DIRECTION DEGREES (T)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
37500.0	52.6	-62.0		86.7	568.1		50.4	1.000019
36000.0	51.3	-61.8		86.0	568.4		51.1	1.000019
34500.0	50.1	-61.6		85.5	568.7		51.8	1.000018
33000.0	48.9	-61.4		80.4	568.9		52.3	1.000018
31500.0	47.7	-61.2		78.4	567.2		51.7	1.000017
30000.0	46.6	-61.0		76.4	567.4		51.2	1.000017
28500.0	45.4	-60.8		74.5	567.7		51.3	1.000017
27000.0	44.3	-60.6		72.7	567.9		51.0	1.000016
25500.0	43.3	-60.4		70.9	568.2		52.0	1.000016
24000.0	42.2	-60.2		69.1	568.5		50.3	1.000015
22500.0	41.2	-60.0		67.4	568.7		40.3	1.000015
21000.0	40.2	-59.9		65.7	569.0		44.7	1.000015
19500.0	39.3	-59.7		64.1	569.2		50.1	1.000014
18000.0	38.3	-59.5		62.5	569.5		72.1	1.000014
16500.0	37.4	-59.3		60.9	569.7		70.3	1.000014
15000.0	36.5	-59.1		59.4	570.0		79.9	1.000013
13500.0	35.6	-58.9		57.9	570.3		81.1	1.000013
12000.0	34.8	-58.7		56.5	570.5		84.9	1.000013
10500.0	34.0	-58.5		55.0	571.3		88.5	1.000012
9000.0	33.2	-58.3		53.0	572.0		90.9	1.000012
7500.0	32.4	-58.0		52.2	572.7		91.9	1.000012
6000.0	31.6	-57.6		50.8	573.5		92.6	1.000011
4500.0	30.9	-57.4		49.5	574.2		92.8	1.000011
3000.0	30.2	-57.2		48.2	574.9		92.0	1.000011
1500.0	29.6	-56.8		47.0	575.7		93.4	1.000010
0000.0	28.7	-56.4		45.8	576.4		107.5	1.000010
0000.0	28.1	-56.3		44.6	577.0		121.2	1.000010
0000.0	27.4	-56.3		43.5	577.2		129.5	1.000010
0000.0	26.8	-56.3		42.5	577.4		128.9	1.000009
0000.0	26.2	-56.3		41.5	577.5		126.0	1.000009
0000.0	25.6	-56.2		40.5	577.7		112.7	1.000009
0000.0	25.1	-56.1		39.0	577.9		99.4	1.000009

UPPER AIR DATA
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STATION ALTITUDE 9997.30 FEET MSL
29 SEP 69
ASCESSION NO. 00

0420 HRS MDT

GEODETIC COORDINATES
32.48034 LAT 1EG
106.42307 LON 1EG

TABLE 7 (continued)

GEOMETRIC ALTITUDE FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES (TN)	SPEED KNOTS	
55,000.0	24.4	-53.0		33.0	578.1	19.7	6.6	1.000009
54,000.0	23.8	-52.8		37.7	578.2	13.6	8.2	1.000008
53,000.0	23.3	-52.7		36.0	578.4	10.2	7.9	1.000008
52,000.0	22.8	-52.6		35.9	578.6	19.0	7.7	1.000008
51,000.0	22.2	-52.4		35.1	578.8	17.1	7.9	1.000008
50,000.0	21.7	-52.3		34.3	578.9	12.7	8.4	1.000008
49,000.0	21.2	-52.2		33.4	579.1	8.9	9.0	1.000007
48,000.0	20.7	-52.0		32.7	579.3	8.8	9.2	1.000007
47,000.0	20.2	-51.9		31.9	579.5	10.2	9.3	1.000007
46,000.0	19.8	-51.8		31.1	579.6	11.5	9.4	1.000007
45,000.0	19.3	-51.6		30.4	579.8	15.0	8.2	1.000007
44,000.0	18.9	-51.5		29.7	580.0	20.6	6.8	1.000007
43,000.0	18.4	-51.4		29.0	580.2	29.1	5.4	1.000006
42,000.0	17.9	-51.2		28.3	580.3	56.1	3.7	1.000006
41,000.0	17.6	-51.1		27.6	580.5	101.4	3.6	1.000006
40,000.0	17.2	-51.0		27.0	580.7	131.2	5.3	1.000006
39,000.0	16.8	-50.9		26.3	580.9	136.1	6.2	1.000006
38,000.0	16.4	-50.7		25.7	581.0	139.8	7.2	1.000006
37,000.0	16.0	-49.7		25.0	582.3	142.5	8.2	1.000006
36,000.0	15.7	-48.7		24.3	583.6			1.000005
35,000.0	15.3	-47.7		23.7	584.9			1.000005
34,000.0	15.0	-46.7		23.0	586.2			1.000005
33,000.0	14.6	-45.8		22.4	587.5			1.000005
32,000.0	14.3	-44.8		21.8	588.8			1.000005

STATION ALTITUDE 3907.30 FEET
 20 30 40
 0420 HRS MDT

STATIONARY LEVELS
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GEODETIC COORDINATES
 52.40034 LAT DEG
 106.42307 LONG DEG

TABLE 8.

PRESSURE GEOPOTENTIAL MILLIBARS	TEMPERATURE ATP DEGREES CENTIGRADE	TEMPERATURE DEWPOINT PERCENT	WIND DATA	
			DIRECTION DEGREES (TH)	SPEED KNOTS
850.0	5060.	17.3	350.4	2.8
800.0	6766.	15.6	341.1	4.1
750.0	8426.	13.2	1.0	9.6
700.0	10303.	10.7	6.3	10.3
650.0	12600.	5.6	27.0	6.7
600.0	14531.	1.9	350.1	5.3
550.0	16113.	-2.5	274.0	9.2
500.0	19271.	-7.4	236.9	17.2
450.0	21946.	-10.1	250.7	28.4
400.0	24390.	-16.6	240.3	42.7
350.0	28148.	-21.4	239.5	49.4
300.0	31914.	-30.0	236.3	51.0
250.0	35987.	-40.0	239.5	46.1
200.0	40855.	-52.1	254.3	57.3
175.0	43646.	-59.2	252.7	52.8
150.0	46765.	-65.2	267.5	48.7
125.0	50369.	-70.3	252.8	24.3
100.0	54670.	-73.3	255.1	14.7
75.0	58976.	-70.8	336.1	3.4
50.0	61552.	-71.4	77.9	6.7
25.0	64572.	-66.6	71.9	9.3
00.0	68255.	-61.6	51.0	12.0
40.0	72111.	-50.8	46.4	5.2
30.0	76767.	-55.2	92.0	12.5
20.0	82200.	-53.1	62.9	3.7
10.0	87332.	-51.8	10.7	9.3
5.0	93438.	-46.8		

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.